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December 29, 2003

ATTORNEY DOCKET NO.: INTEL1120(P15611)

ATTN: Mail Stop PATENT APPLICATION
COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is a new original patent application of:

APPLICANT(S): Mineo Yamakawa and John Heck

TITLE: MICROFLUID MOLECULAR-FLOW FRACTIONATOR AND
BIOREACTOR WITH INTEGRATED ACTIVE/PASSIVE DIFFUSION
BARRIER

Enclosed are the following papers, including all those required to receive a filing date under
37 CFR § 1.53(b):

| | <u>Number of Pages</u> |
|-------------------------|------------------------|
| Specification | 15 |
| Claims | 7 |
| Abstract | 1 |
| Drawing(s) – [informal] | 12 |

EXPRESS MAIL Number: EV 318740685 US
Date of Deposit: December 29, 2003

I hereby certify that this paper is being deposited with the United States Postal Service "EXPRESS MAIL Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to: Attn: Mail Stop PATENT APPLICATION, COMMISSIONER FOR PATENTS, P. O. BOX 1450, Alexandria, VA 22313-1450.

Jason Berry
(Name of Individual Depositing with P.O.)

Jason Berry
(Signature of Individual Depositing with P.O.)

SILICON VALLEY SAN DIEGO SAN FRANCISCO AUSTIN SEATTLE SACRAMENTO LA JOLLA WASHINGTON, DC

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GRAY CARY WARE & FREIDENRICH LLP

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Box PATENT APPLICATION

Date December 29, 2003

Page 2

Enclosure(s):

- Initial Information Data Sheet (2 pages);
- Declaration (6 pages);
- Check No. 550507 in the amount of \$1468.00; and
- Return Receipt Postcard.

Applicant(s) claim **LARGE ENTITY** status in the above-identified application.

The filing fee is calculated as follows:

| | Number Filed | | Number Extra | | Rate | | | Fee | |
|---|--------------|---|--------------|---|--------------|--------------|---|--------------|--------------|
| | | | | | Large Entity | Small Entity | | Large Entity | Small Entity |
| Total Claims | 54-20 | = | 34 | X | \$18 | \$09 | = | \$612.00 | \$ |
| Independent Claims | 4-3 | = | 1 | X | \$86 | \$43 | = | \$86.00 | \$ |
| Multiple Dependent Claims Presented: <u>Yes</u> <u>X</u> <u>No</u> | | | | | \$ | \$ | | \$ | \$ |
| | | | | | BASIC FEE | | | \$770.00 | \$385.00 |
| | | | | | TOTAL FEE | | | \$1468.00 | \$ |

Check No. 550507 is enclosed as payment of the **FILING FEE**. The Commissioner is hereby authorized to apply any other required fees or any credits to Deposit Account No. 50-1355, referencing the attorney docket number shown above. A copy of this Transmittal Sheet is enclosed.

SILICON VALLEY SAN DIEGO SAN FRANCISCO AUSTIN SEATTLE SACRAMENTO LA JOLLA WASHINGTON, DC

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Page 3

If this application is found to be INCOMPLETE, or if a telephone conference would otherwise be helpful, please call the undersigned at (858) 677-1456.

A duplicate copy of this letter is enclosed. Kindly acknowledge receipt of this application by returning the enclosed postcard.

All future correspondence should be addressed to:

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Respectfully submitted,

GRAY CARY WARE & FREIDENRICH LLP

Lisa A. Haile
Lisa A. Haile, J.D., Ph.D.

Registration No. 38,347

12/29/03

Date

LAH/MRS:rmw

Enclosure(s)